

VENIKOV, V.A., doktor tekhn.nauk, prof.

Automatic control in electric power engineering. Elektrichestvo  
no.10:82-85 0 '60. (MIRA 14:9)  
(Automatic control) (Electric engineering)

VENIKOV, V.A., doktor tekhn.nauk; GERSENBERG, G.R., kand.tekhn.nauk;  
KOSTENKO, M.P., akaderik; NEYMAN, L.R.; SOVALOV, S.A., kand.tekhn.  
nauk; SOKOLOV, N.I., kand.tekh.nauk

Strong regulation in electric systems. Elek.sta. 31 no.6:43-49  
Je '60. (MIRA 13:7)

1. AN SSSR (for Kostenko).
2. Chlen-korrespondent AN SSSR (for  
Neyman).  
(Electric power distribution)  
(Voltage regulators)

VENIKOV, V.A. (Moskva); SYUDA, I.P. (Novocherkassk)

Efficiency of a.c. power transmission systems. Izv. AN SSSR Otd.  
tekhn. nauk Energ. i avtom no. 1:3-11 Ja-F '61. (MIRA 14:3)  
(Electric power distribution—Alternating current)

VENIKOV, V.A. (Moskva); ROZANOV, M.N. (Moskva)

Load stability. Izv. AN SSSR. Otd. tekhn. nauk. Energ. i avtom.  
no.3:121-125 My-Je '61. (MIRA 14:7)  
(Electric power distribution)

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S/024/61/000/006/014/019  
E192/E382

16.8000 (1031, 1132, 1329)

AUTHORS: Venikov, V.A. and Karpov, V.A. (Moscow)

TITLE: Investigation of the operating conditions of electrical systems containing novel controllable devices by the method of generalized reactance

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika, no. 6, 1961, 101 - 105

TEXT: Investigation of modern complex electrical systems can be carried out by using the method of analysis based on the introduction of a generalized reactance of a controlled system. The concept of this method was proposed by V.A. Venikov (Nauchn. dokl. vyssh. shkoly, Energetika, 1958, no. 1) and developed by V.A. Karpov (Ref. 2: Izv. vyssh. ucheb. zaved., Energetika, 1961, no. 1). The method is used for investigating a set consisting of a synchronous generator and a controlled static generator of reactive (YCT) power, which is connected to the busbars of the synchronous generator (Fig. 1). The static generator of reactive power is shown diagrammatically in Fig. 2, Card 1/6

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where: B is an auxiliary generator fixed on the same shaft as the main generator, by means of which it is possible to vary the reactance  $\varphi_1(p)$  at the input of the static generator for  $\Delta U_d$  and  $\varphi_2(p)$  for  $\Delta U_q$  by using the control device YY-1; the simultaneous action of the controlling device YY-2 and auxiliary generator makes it possible to produce in a system an e.m.f.  $\varepsilon = \varepsilon_1 + \varepsilon_2$ , where  $\varepsilon_1$  depends on  $\Delta I_{d\Sigma}$  and  $\varepsilon_2$  depends on  $\Delta I_{q\Sigma}$ .  $\varepsilon_1(p) = W_d(p) \Delta I_{d\Sigma}$   
 $\varepsilon_2(p) = W_q(p) \Delta I_{q\Sigma}$  and L is a reactor whose winding impedance (O. O.) changes due to the current changes in the magnetizing winding (Π O.), control of the current in the magnetizing winding is effected by the device YY-1 which changes the magnetizing current proportionally to  $\Delta U_d$  and  $\Delta U_q$ ; C is a battery of condensers and

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$$\varphi_q(p) = \frac{-x_c \varphi_2(p)}{\varphi_2(p) - x_c}, \quad \varphi_d(p) = \frac{\varphi_1(p)(-x_c)}{\varphi_1(p) - x_c}.$$

Control of the system can be effected on the basis of the overall voltage  $U$  or current  $I$ , or separately by their longitudinal and transverse components  $U_d$ ,  $U_q$ ,  $I_d$  and  $I_q$ , which are obtained from the control devices YY-1 and YY-2. The current changes in a standard non-controlled synchronous generator are normally expressed by:

$$\Delta I_d = \frac{g(p)}{x_d(p)} \Delta U_{fd} - \frac{\Delta U_d}{x_d(p)}, \quad \Delta I_q = \frac{\Delta U_q}{x_q(p)} \quad (1).$$

If a controlled static generator of reactive power is connected in parallel with the generator, the current changes are described by:

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$$\Delta I_{d\pi} = \frac{g(p)}{x_d(p)} \Delta U_{fd} - \frac{\Delta U_d}{x_d(p)} - \frac{1}{T_d(p)} \Delta U_d + \frac{W_d(p)}{x_c} \Delta I_{d\pi}$$

$$\Delta I_{q\pi} = \frac{\Delta U_q}{x_q(p)} + \frac{\Delta U_q}{T_q(p)} + \frac{W_q(p)}{x_c} \Delta I_{q\pi}$$

(2) . ✓

On the basis of the above it is shown that the generalized operational parameters for the generator, provided with excitation control, are in the form:

$$X_d(p) = \frac{[x_d(p) - W(p)g(p)a] \Phi_d(p)}{x_d(p) + \Phi_d(p) - W(p)g(p)[a + \Phi_d(p)b]} \left[ 1 - \frac{W_d(p)}{x_c} \right]$$

$$G(p) = \frac{\Phi_d(p)}{x_d(p) + \Phi_d(p) - W(p)g(p)[a + \Phi_d(p)b]} g(p)$$

(5)

where  $W(p)$  is the transfer function of the control system, while  $a$  and  $b$  are the coefficients determining the type of control. Eqs. (5) express the effect of the control devices on the characteristics of the equivalent generator and give

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the relationship between them. The equations are used to investigate the particular case of a synchronous generator controlled on the basis of the overall current with the static reactive-power generator controlled by the overall longitudinal current. It is found that the parameters of the equivalent system differ from the parameters of the controlled synchronous machine and from those of the generator itself (without the static reactive-power generator being connected). Analysis of the small oscillations in the system of Fig. 1 shows that in the absence of stabilizing circuits in the transverse axis of the synchronous generator it is possible to achieve stable operation of the system by introducing a positive damping torque for  $I_m[X_d(j\omega)] \leq 0$ . If the control coefficients of the system are suitably chosen,  $X_d$  (see Eq. 5) can be negative so that the threshold power of the system can be increased by  $m$  times, where:

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$$m = \frac{x_{11} + x_d}{x_{11} - x_d}$$

which, for large values of  $x_{11}$ , can be as high as 3 - 4.5.

There are 5 figures and 4 Soviet-bloc references.

**SUBMITTED:** Apr 11 22, 1961

Fig. 1:

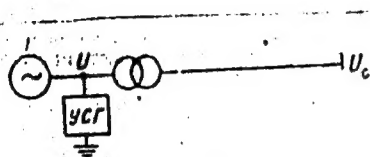
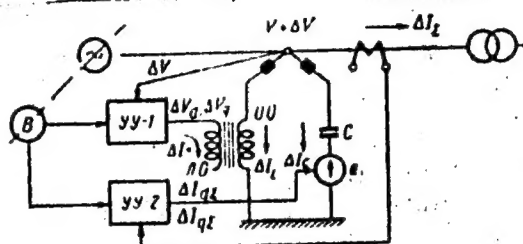


Fig. 2:



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VENIKOV, V.A., doktor tekhn.nauk, prof.

"Parallel operation of electrical systems" by A. Kaminskii. Reviewed  
by V.A. Venikov. Elektrichestvo no.9:95-96 S '61. (MIRA 14:9)  
(Electric engineering) (Kaminskii, A.)

VENIKOV, V.A., prof., doktor tekhn.nauk, laureat Leninskoy premii

Problem concerning the classification of models and simulation  
methods. Izv. vys. ucheb. zav.; energ. 4 no.10:12-14 0 '61.  
(MIRA 14:11)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena  
kafedroy elektricheskikh sistem.  
(Electric engineering--Modes) (Electric network analyzers)

S/649/61/000/139/003/018  
1028/1228

AUTHOR: Venikov, V. A.  
TITLE: Interrelationship between physical modeling and similitude theory on one hand, and mathematical modeling and computing techniques on the other  
SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 139. 1961  
Teoriya podobiya i yeye primeneniye v teplotekhnike; trudy pervoi mezhvuzovskoy konferentsii, 20-31

TEXT: The article traces the influence of the development of computers on the future of physical modeling and on experimentation in general. The mathematization of physics and its philosophical implications is considered, and the assertion that physics is a purely axiomatic science is refuted. The superiority of man over man-made machines is stressed. The present state of technology requires a synthesis between cybernetic installations and the physical model, and the possibilities for developing self-adjusting and learning machines are sketched. Independent uses of physical modeling for the solution of problems and training of personnel are examined. Analog computers are compared with digital ones, and their relative advantages and shortcomings briefly treated. ✓

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Institute of Energetics)

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S/720/61/001/000/003/003

AUTHOR: Venikov, V.A.

TITLE: Cybernetics in electric power systems.

SOURCE: Kibernetika - na sluzhbu kommunizmu. v.1. A.I.Berg, ed. Moscow. Gosenergoizdat, 1961, 272-292.

TEXT: The complexity and internal relationships within an electric system (ES) resemble those prevailing in the cybernetics of automatic control systems. A new discipline, that of the "cybernetics of electric (power) systems" (CybES) is proposed; CybES takes into account both the interaction of a system with external sources and the internal feedback interactions within the system. The qualitative relationships within a system are shown in a block diagram without any claim for definitiveness. CybES explores the general operating principles of an automatized electric system and its properties as a single self-regulating system that satisfies the qualitative requirements and relationships specified. CybES is not concerned with actual equipment design or the means of transmittal of information or command signals. CybES may be regarded as divided into three branches, namely: Branch 1. Development of methods for the analysis and synthesis of the characteristics of the elements composing the ES as a unitary whole. This task must yield such mathematical expression of the physical functions that optimization of both steady-state and transient processes is ensured. This requires an "algorismization" (ALG) of all physical phenomena

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with the aid of similarity theory, full-scale and other physical model experiment, and mathematical modeling. New methods must be found for the ALG in a manner consistent with optimal utilization of high-speed computing and modeling facilities; the poor utilization of facilities observed, for example, in England is pointed out. A full-page table showing a tentative classification of types and methods of modeling is presented, including: (I) Logical models or analogs, (II) geometric models or scale models without full simulation of all physical phenomena, (III) physical models simulating mechanical and physical processes, (IV) mathematical models including a variety of electrical, structural, and mechanical analogs, and (V) digital models. Among the new methods proposed is the modeling of the cybernetics of controlled ESs according to the data of their normal operation. The simulated system is assumed to be characterized by an input  $B_1$  and an output  $B_2$  which are related by a certain operator  $\Pi$ . Any other system possessing the same operator  $\Pi$  would be mathematically (or functionally) similar to the given system. V.T. Kulik (Avto-  
matika, no. 3, 1960, Kiyev) proposes a group of methods collectively termed "method of the interpolating model" for the solution of such problems. Branch 2. Information theory. The magnitude of the territory covered by an ES and the enormous number of elements involved impose extremely rigorous demands on the quantitative capability and the qualitative level of transmission of the system. The minimum amount of required information and the carrying ability and noise resistance of the information channels are essential elements. Two illustrative examples are

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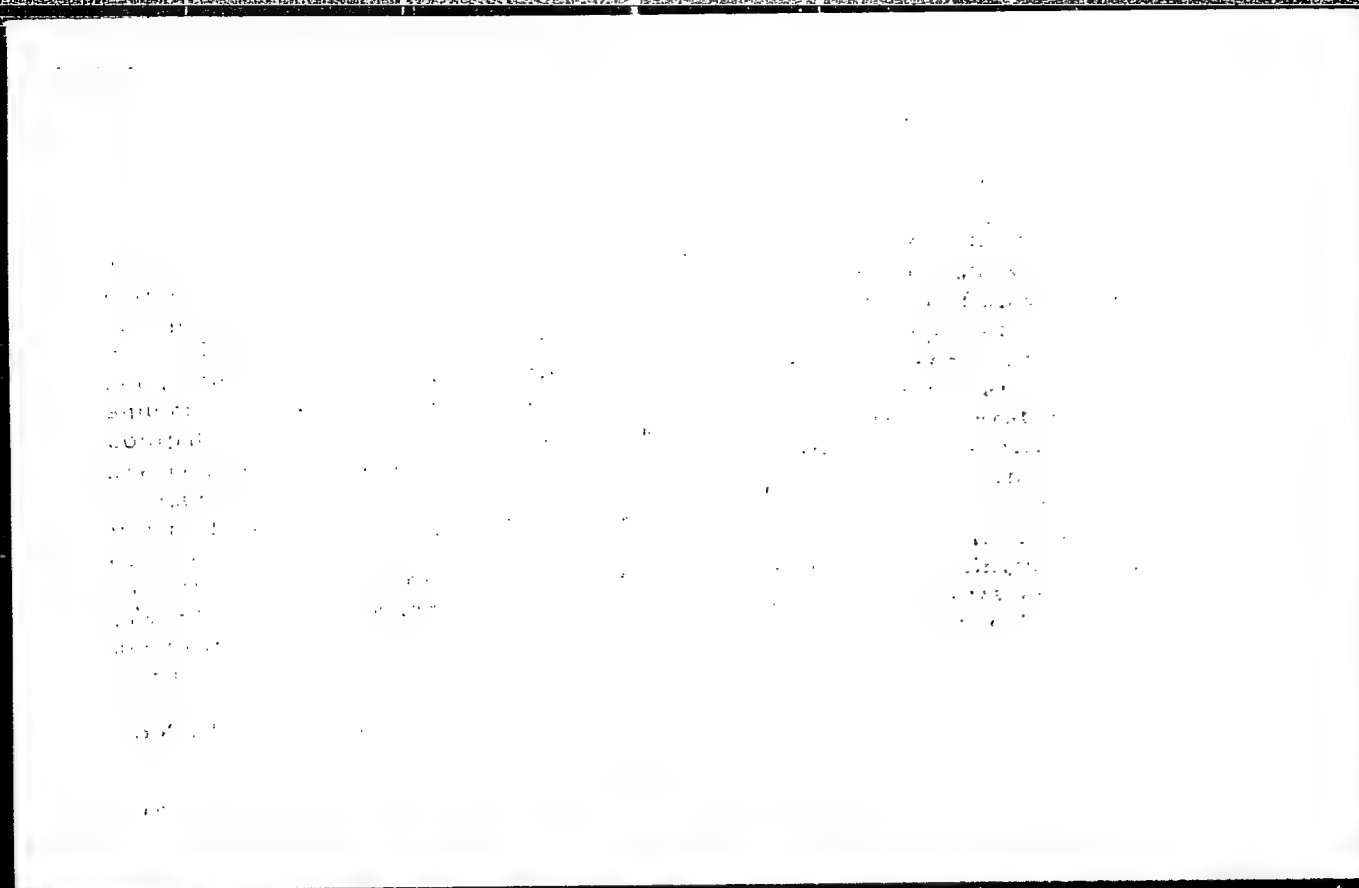
Cybernetics in electric power systems.

cited: (1) The transmission of information on small perturbations and random variations in ESs (voltage, frequency, current, loads), which are collectively termed the "breathing" of an ES. The information of these variations must be divided into characteristic groups, and its minimal required volume and its transmission to the control organs of the system must be established; (2) the receipt of information necessary for the economically efficient distribution of the energy between the stations of the system; this requires the establishment of the indispensable information, its quantity and quality, means for its transformation and transmission, and the feedback of the control impulses to the servomechanism; (3) the receipt of information needed for automatic frequency stabilization; (4) the receipt of information on the inception and development of irregularities and emergencies; this is a highly critical element, since it constitutes a deviation from the basic principle which prescribes that the control of the system is to react in a specified manner to past and present parameters; changes only; in this instance first- and second-derivative rate information, forecasting future developments, may also be essential; (5) the search for solutions that are optimal for the national economy; these, usually, involve stochastic considerations; the application of Lyapunov's extremal theorem in the estimation of timewise increases of power consumption may result in economies of the order of 25% in nonferrous metals and 15% in installed transformer power as against systems designed by "simplified engineering methods." An automatic optimization computer for the calculation of power-transmission-line cross sections has been constructed

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SOLDATKINA, Lidiya Aleksandrovna, dots.; VENIKOV, V.A., prof., red.

[Voltage quality in electric power distribution networks;  
lecture on the section "Cybernetics of electrical systems"]  
Voprosy kachestva napriazheniia v raspredelitel'nykh elek-  
tricheskikh setiakh; lektsiia po razdelu: Kibernetika elek-  
tricheskikh sistem. Moskva, Mosk. energet. in-t, 1963. 71 p.  
(MIRA 17:4)

VENIKOV, V.A. (Moskva); KHE YAN-TSZAN' [Ho Yang-tsan]

Calculation of steady-state nonsynchronous operation of a  
synchronous generator. Izv. AN SSSR. Otd. tekhn. nauk. Energ.  
1 transp. no.3:266-275 My-Je '63. (MIRA 16:8)

BRONSHTEYN, E.L., inzh.; VEN KOV, V.A., doktor tekhn.nauk; SOVALOV, S.A.,  
kand.tekhn.nauk

Study of the electrical braking of the generators of the V.I.Lenin  
Volga Hydroelectric Power Station. Trudy VNIIE no.15:227-248 '63.  
(MIRA 16:12)

VENIKOV, V.A., doktor tekhn. nauk, otv. red.; Laureat Leninskoy premii, prof.; D'YAKOVA, G.B., red. izd-va; MAKAGONGVA, I., tekhn. red.

[Simulation techniques in the study of electric power systems] O metodakh modelirovaniia pri izuchenii energeticheskikh sistem. Moskva, 1963. 150 p. (MIRA 16:7)

1. Akademiya nauk SSSR. Energeticheskii institut.  
(Electric power distribution)

VENIKOV, V.A., doktor tekhn.nauk, prof.; ASTAKHOV, Yu.N., inzh.

Reply to N.N.Krachkovskii's remarks. Izv. vys. ucheb. zav.; energ.  
6 no.4:122-125 Ap '63. (MIRA 16:5)

1. Moskovskiy ordena Lenina energeticheskiiy institut.  
(Electric lines)

KULEBAKIN, V.S., akademik; VENIKOV, V.A., doktor tekhn.nauk, prof.

Increase in the frequency of commercial a.c. and determination of its  
optimal value for future electrification of the U.S.S.R.

~~Elektrichestvo~~ no.3:9-14 Mr '63.

(MIRA 16:4)

(Electric power distribution—Alternating current)(Electrification)



AZAR'YEV, D.I., kand. tekhn. nauk (Moskva); VENIKOV, V.A., prof.,  
doktor tekhn. nauk (Moskva); LITKENS, I.V., dotsent, kand.  
tekhn. nauk (Moskva); MAMIKONYANTS, L.G., prof., doktor  
tekhn. nauk (Moskva); PORTNOY, M.G., kand. tekhn. nauk  
(Moskva); SOVALOV, S.A., kand. tekhn. nauk (Moskva)

Fundamentals of the determination of power system stability.  
Elektrichestvo no.11:1-8 N '63. (MIRA 16:11)

VENIKOV, V.A. (Moskva)

Present simulation techniques in the solution of scientific  
and technical problems. Izv. AN SSSR. Energ. i transp  
no.2:141-159 Mr-Ap'64. (MIRA 17:5)

BUDNITSKIY, A.B.; VENIKOV, V.A.; GIZILA, Ye.P.; GREBEN', I.I.;  
IYERUSALIMOV, M.Ye.; KALNIBOLOTSKIY, M.L.; KONDR, B.N.;  
LOYEV, Ye.G.; NESTERENKO, A.D.; PAVLOV, V.M.; POSTNIKOV, I.M.;  
POBEGAYLO, K.M.; RADCHENKO, L.A.; SVECHNIKOV, L.V.; SYROMYATNIKOV,  
I.A.; FEDOSEYEV, A.M.; FEDCHENKO, I.K.; KHODOROV, S.Ye.;  
CHIZHENKO, I.M.; TSUKERNIK, L.V.

Professor Vasilii Grigor'evich, 1904 -; on his 60th birthday.  
Elektrichestvo no.4:93-94 Ap '64. (MIRA 17:4)

BERG, A.I., glav.red.; TRAPEZNIKOV, V.A., glav.red.; TSYPKIN, Ya.Z., doktor tekhn.nauk, prof., red.; VORONOV, A.A., doktor tekhn.nauk, prof., red.; SOTSKOV, B.S., doktor tekhn.nauk, red.; AGEYKIN, B.I., doktor tekhn.nauk, red.; GAVRILOV, M.A., red.; VENIKOV, V.A., doktor tekhn.nauk, prof., red.; CHELYUSTKIN, A.B., doktor tekhn.nauk, red.; FRANKOF'YEV, V.N., doktor tekhn.nauk, prof., red.; IL'IN, V.A., doktor tekhn.nauk, prof., red.; KITOV, A.I., doktor tekhn.nauk, red.; KRINITSKIY, N.A., kand. fiz.-mat.nauk, red.; KOGAN, B.Ya., doktor tekhn.nauk, red.; USHAKOV, V.B., doktor tekhn.nauk, red.; LEBEDEV, Yu.A., doktor tekhn.nauk, prof., red.; FEL'DBAUM, A.A., prof., doktor tekhn.nauk, red.; SHREYDER, Yu.A., kand. fiz.-mat. nauk, dots., red.; KHARKEVICH, A.A., akad., red.; TIMOFEYEV, P.V., red.; MASLOV, A.A., dots., red.; LEVIN, G.A., prof., red.; LOZINSKIY, M.G., doktor tekhn.nauk, red.; NETUSHIL, A.V., doktor tekhn.nauk, prof., red.; POPKOV, V.I., red.; ROZENBERG, L.D., doktor tekhn.nauk, prof., red.; LIVSHITS, A.L., kand. tekhn.nauk, red.

[Automation of production and industrial electronics] Avtomatizatsiya proizvodstva i promyshlennaya elektronika; entsiklopediya sovremennoi tekhniki. Moskva, Sovetskaya Entsiklopediya. Vol.3. Pogreshnost' resheniya - Teleizmeritel'naya sistema chastotnaya. 1964. 487 p. (MIRA 17:10)

I. Chlen-korrespondent AN SSSR (for Sotskov, Gavrilov, Timofeyev, Popkov).

VENIKOV, Valentin Andreyevich; LITKENS, Irina Vladimirovna.  
Prinimali uchastiye SOLDATKINA, L.A., dots.; VASIN, V.P.,  
inzh.; KHRUSTALEVA, N.I., red.

[Mathematical principles of the theory of automatic control  
of the operation of electrical systems] Matematicheskie os-  
novy teorii avtomaticheskogo upravleniia rezhimami elektro-  
sistem. Moskva, Vysshaya shkola," 1964. 201 p.

(MIRA 17:4)

VENIKOV, Valentin Andreyevich; NIKITIN, D.V., red.; STROYEV, V.A.,  
red.

[Transient electromechanical processes in electrical systems]  
Perexhodnye elektromekhanicheskie protsessy v elektricheskikh  
sistemakh. Moskva, Izd-vo "Energia," 1964. 377 p.  
(MIRA 17:8)

VENIKOV, V.A., doktor tekhn. nauk, prof. (Moskva); NOVITSKIY, V.M., inzh.  
(Moskva); SHTROBEL', V.A., inzh. (Moskva)

Strong regulation achieved by third and fourth derivatives of the  
absolute angle. Elektrichestvo no.3:32-37 Mr '64. (MIRA 17:4)

ASTAKHOV, Yu.N., inzh.; ZUYEV, E.N., inzh.; VENIKOV, V.A., doktor tekhn.  
nauk, prof., rukovoditel' raboty

Determination of similitude criteria in physical phenomena. Izv.  
vys. ucheb. zav.; energ. 7 no.3:10-18 Mr '64. (MIRA 17:4)

1. Moskovskiy ordena Lenina energeticheskiy institut (for Astakhov).
2. Energeticheskiy institut Sibirskogo otdeleniya AN SSSR (for Zuyev). Predstavlena kafedroy elektricheskikh sistem Moskovskogo ordena Lenina energeticheskogo instituta.



VENIKOV, V.A., doktor tekhn. nauk, prof., Laureat Leninskoy premii;  
GORSKIY, Yu.M., kand. tekhn. nauk, nauchnyy sotrudnik;  
SOLDATKINA, L.A., kand. tekhn. nauk, dotsent; MARKOVICH, I.M.,  
doktor tekhn. nauk; KHOLMSKIY, V.G., prof., doktor tekhn. nauk;  
TSUKERNIK, L.V., doktor tekhn. nauk;

On N.A. Kartvelishvili's comments: "Errors in the determination  
of the probability of stability disturbance for some dynamic  
systems." Izv. AN SSSR. Mekh. i mashinostr. no.4:195-200  
Jl-Ag '64

1. Zaveduyushchiy kafedroy "Elektricheskiye sistemy" Moskov-  
skogo energeticheskogo instituta (for Venikov).

VENIKOV, V.A.; KAMYNIN, S.M.; LITKENS, I.V.; TSUKERNIK, L.V.

Automatic excitation controller with strong action for power  
plants operating in complex electrical systems. Trudy MEI  
no.54:53-82 '64. (MIRA 17:12)

VENIKOV, V.A., prof., doktor tekhn. nauk, laureat gosudarstvennoy premii

Results of the work and objectives of the problem laboratory  
of Electrical Systems and the Department of Electric Power  
Systems. Study IEL no. 54:5-36 '62. 1962 17 12'

VENIKOV, V.A.; GLAZUNOV, A.A.; KAZAK, N.A.; LITVAK, V.L.;  
SYROMATNIKOV, I.A.

Concerning the training of engineers-electricians in the  
field of "electric power supply of industrial enterprises  
and cities." Elektrichestvo no.2:94-95 F '64.  
(MIRA 17:3)

ALEKSEYEVA, G.Ye., kand. tekhn. nauk, dots.; MELESHKINA, L.P., dots., kand. tekhn. nauk; SALUYEV, V.K., inzh.; BANDAS, A.M., prof., doktor tekhn. nauk; VETIKOV, V.A., prof., doktor tekhn. nauk; YEZHKOVA, V.V., kand. tekhn. nauk; ANISTIMOVA, N.D., dots., kand. tekhn. nauk; GANTMAN, S.A., kand. khim. nauk; GLAZUNOV, A.A., dots., kand. tekhn. nauk; GOGUA, L.K., inzh.; GREBENNICHENKO, V.T., inzh.; CRUDINSKIY, P.G., prof.; GORFINKEL', Ya.M., inzh.; ZVEZDIN, A.L., inzh.; KAZANOVICH, G.Ya., inzh.; KINYAEVSKIY, B.A., dots., kand. tekhn. nauk; KOSAREV, G.V., dots., kand. tekhn. nauk; MESSEMAN, S.M., kand. tekhn. nauk, dots.; KOKHAN, N.D., inzh.; KUVAYEVA, A.P., dots., kand. tekhn. nauk; SOKOLOV, M.M., dots., kand. tekhn. nauk; LASHKOV, F.P., dots., kand. tekhn. nauk; LAZIN, A.I., inzh.; YUDIN, F.I., inzh.; LIVSHITS, A.L., kand. tekhn. nauk; METEL'TSIN, P.G., inzh.; NEKRASOVA, N.M., dots., kand. tekhn. nauk; OL'SHANSKIY, N.A., dots., kand. tekhn. nauk; POLEVAYA, I.V., dots., kand. tekhn. nauk; POLEVOY, V.A., dots., kand. tekhn. nauk [deceased]; RAZEVIK, D.V., prof., doktor tekhn. nauk; RAKOVICH, I.I., inzh.; SOLDATKINA, L.A., dots., kand. tekhn. nauk; TREMBACH, V.V., dots., kand. tekhn. nauk; FEDOROV, A.A., prof., kand. tekhn. nauk; FIER, L.M., inzh.; CHILIKIN, M.G., prof., doktor tekhn. nauk, glav. red.; ANTIK, I.V., inzh., red. GOLOVAN, A.T., prof., red.; PETROV, G.N., prof., red.; FEDOSEYEV, A.M., prof., red.

(Continued on next card)

ALEKSEYEVA, G.Ye.--- (continued). Card 2.

[Electrical engineering manual] Elektrotekhnicheskii  
spravochnik. Pod obshchei red. A.T. Golovana i dr. Moskva,  
Energlia. Vol.2. 1964. 758 p. (MIRA 17:12)

1. Moscow. Energeticheskii institut. 2. Moskovskiy energe-  
ticheskii institut (for Golovan, Grudinskiy, Petrov,  
Fedoseyev, Chilikin, Venikov). 3. Chlen-korrespondent AN  
SSR (for Petrov).

VENIKOV, V.A.

Relationship between physical modeling and the theory of similitude with mathematical modeling and computer technology. Trudy MIIT no.139:20-31 '61.  
(MIRA 16:4)

1. Moskovskiy energeticheskiy institut.  
(Dimensional analysis) (Electromechanical analogies)(Electric computers)

VENIKOV, V.A.

Mode of Operation of Electrical Systems and Conditions for Controlling Them

Report submitted at the Conference on Electrification of Siberia,  
Development and Unification of its power systems, 7-9 Dec. 61  
JPRS: 20,730 20 Aug 63

Izv. Sib. otdel nauk SSSR, No.2 Novosibirsk pages. 131-132, 1962



S/044/62/000/007/065/100  
C111/C333

AUTHOR: Venikov, V. A.

TITLE: The application of cybernetic to electric systems

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 42,  
abstract 7V182. ("Kibernetiku-na sluzhbu kommunizmu.T.I.",  
M.-L., Gosenergoizdat, 1961, 272-292)

TEXT: According to the author cybernetic is "the science on a purposive controlling of developing processes". Cybernetics can and must be taken for the controlling of electrical systems since these systems show all characteristics of those processes cybernetic is engaged with. The author believes that it would be useful to introduce a new technical discipline - "cybernetic of the electric systems"; it "ought to be accepted in the cycle of scientific - technical systems out of which electro-energetics consists as a science". The author defines this new science as a discipline considering the general principles of working and the properties of an automatized electric system which is understood as a totality, controlling itself optimally. The author divides the "cybernetic of the electric systems" into three

Card 1/2

The application of cybernetic to ...

S/C44/62/000/007/065/100  
C111/C333

parts: 1) the development of methods for investigation and synthesis of the characteristics of the elements of the system; 2) information theory on the working of the system; 3) the theory of the processes in automatically controlled electric systems and the theory of the interaction of the elements of a complicated automatized system of energy. The author gives concrete examples and schemes, and he lays a stress upon the fact that the mathematical and the physical experiment are inseparable in the cybernetic of electric systems. ✓

[Abstracter's note: Complete translation.]

Card 2/2

GORUSHKIN, Vadim Ivanovich, doktor tekhn. nauk; VENIKOVA V.A., prof.,  
doktor tekhn. nauk, laureat Leninskoy premii, red.;  
KHRUSTALEVA, N.I., red.; VORONINA, R.K., tekhn. red.

[Use of electronic computers in power engineering calculations]  
Vypolnenie energeticheskikh raschetov s pomoshch'iu vychislitel'nykh mashin. Pod red. V.A.Venikova. Moskva, Vysshaya shkola, 1962. 174 p. (MIRA 15:9)  
(Electronic calculating machines) (Power engineering)  
(Electric network analyzers)

AZAR'YEV, Dmitriy Ivanovich; VENIKOV, V.A., doktor tekhn. nauk,  
prof., retsenzent; ZHUKOV, L.A., kand. tekhn. nauk, dots.,  
red.; LARIONOV, G.Ye., tekhn. red.

[Mathematical simulation of electrical systems] Matematicheskoe  
modelirovanie elektricheskikh sistem. Moskva, Gosenergoizdat,  
1962. 206 p. (MIRA 15:9)

(Electric network analyzers) (Electric networks)  
(Electronic calculating machines)

ANISIMOVA, N.D.; VENIKOV, V.A., prof., doktor tekhn.nauk, laureat  
Leninskoy premii; YEZHKOVA, V.V.; ZHUKOV, L.A.; NADEZHDI, S.V.;  
ROZANOV, M.H.; FEDOROV, D.A.; TSOV'YANOV, A.H.; LARICHOV, G.Ye.,  
tekhn.red.

[Examples and illustrations of transient processes in electrical  
systems] Perekhodnye protsessy elektricheskikh sistem v pri-  
merakh i illiustratsiyakh. By N.D.Anisimov i dr. Moskva, Gos.  
energ.izd-vo, 1962. 383 p. (MIRA 15:4)

1. Kafedra "Elektricheskiye sistemy" Moskovskogo energeticheskogo  
instituta (for all except Lationov). 2. Zaveduyushchiy kafedroy  
"Elektricheskiye sistemy" Moskovskogo energeticheskogo instituta  
(for Venikov).

(Transients (Electricity)) (Electric networks)

VENIKOV, V.A., SOKOLOV, N.I., GRUZDEV, I.A., KUCHUMOV, A. LUGINSKIY, YA.N.

"Analogue computer application for analysis of transient processes  
in electrical systems."

Report to be submitted for the 19th Biennial Session, Intl. Conf. on  
Large Electric Systems(CIGRE), Paris, France, 16-26 May '62.

VENIKOV, Moscow Power Engineering Inst. im V.M. Molotov

SOKOLOV, " " " " " "

GRUZDEV, Leningrad Polytechnical Inst. im M.I. Kalinin

KUCHUMOV, none given

LUGINSKIY, All-Union Scientific Research Inst. Electro Power Engineering

S/105/62/000/009/001/001  
E140/E435

AUTHORS: Venikov, V.A., Doctor of Technical Sciences,  
Yezhkov, V.V., Engineer, Strakhov, S.V., Doctor of  
Technical Sciences, Professor (Moscow)

TITLE: The calculation of electromechanical transients in  
electric power systems using digital computers

PERIODICAL: Elektrichestvo, no.9, 1962, 7-14

TEXT: The problem treated by the authors is the calculation of  
dynamic stability, short-circuit current variation and phase  
swinging, asynchronous operation related processes, using digital  
computers. The use of digital computers permits a number of  
factors, which had to be neglected in manual calculations, to be  
taken into account. Such factors are the forces due to  
aperiodic components of the stator currents and the periodic  
component of rotor current, power losses in the rotor and stator  
resistances. The work was carried out on a digital computer  
"of the BESM (BESM) type", and compared with the results  
obtained on an analogue model of the same system. The basic  
element studied in the present work was a single machine connected  
Card 1/3

The calculation of electromechanical .. S/105/62/000/009/001/001  
E140/E435

to constant potential busbars. The mathematical starting point is a system of nonlinear integro-differential equations. Periodic components are eliminated by transformation to a coordinate system rotating with the machine under study. Several possibilities exist for the treatment of systems of several machines. Each machine can have its own local set of rotating coordinates, while the lines connecting them can either be related to one of the terminal sets of rotating coordinates or to a further fixed set. In establishing the equations, the following simplifying assumptions were made:

1. The magnetic fields of each winding are distributed sinusoidally along the circular air gap, to the neglect of higher space harmonics.
  2. Reluctance variations are neglected.
  3. Hysteresis, saturation and eddy currents (steel losses) are neglected.
  4. The expressions for the winding inductances are simplified by series expansion and retention of only the first or first two terms.
  5. The field and damping windings are considered to be coaxial.
- With these assumptions and restrictions a system of two generators connected by a
- Card 2/3



The calculation of electromechanical .. S/105/62/000/009/001/001  
E140/E435

transmission line was studied under short-circuit conditions from the instant of metallic contact through the recovery period after disconnection of the short-circuited segment. The results, compared with manual and with analogue computations, show the following:

1. The additional forces taken into account in the computation here are required only for machines close to the point of short circuit. The simplified formulae are adequate for machines further away.
2. The program, which was developed in stages by comparison with the results of analogue computations, appears adequate to the problem.
3. A simplified method, using effective currents, with the additional forces referred to the prime mover, gives sufficiently accurate results compared to the method using instantaneous current values and can be recommended for engineering calculations.
4. The neglect of iron losses does not substantially affect the accuracy of transient calculations for the first hunting cycle. There are 8 figures.

SUBMITTED: May 17, 1962

Card 3/3

ASTAKHOV, Yuriy Nikolayevich; VENIKOV, Valentin Andreyevich; ZUYEV,  
Eduard Nikolayevich; KABIROV, Yuriy Sadekovich; IVANOV, S.M.,  
red.; NAZAROVA, A.S., tekhn. red.

[Cybernetics in power engineering] Kibernetika v energetike.  
Pod red. V.A.Venikova. Moskva, Izd-vo "Znanie," 1962. 35 p.  
(Novoe v zhizni, nauke, tekhnike. IV Seriya: Tekhnika, no.14)  
(MIRA 15:8)

(Power engineering) (Automatic control)

VENIKOV, V.A., doktor tekhn.nauk, prof.; KHARIKHARAN, M.V., kand.tekhn.  
neuk

Practical criteria for determining the steady-state stability of  
electric power systems. Elektrichestvo no.12:11-14 D '62.  
(MIRA 15:12)

1. Moskovskiy energeticheskiy institut.  
(Electric power distribution)

VENIKOV, V.A., doktor tekhn.nauk, prof. (Moskva); IEZHKOV, V.V., inzh.  
(Moskva); STRAKHOV, S.V., doktor tekhn.nauk, prof. (Moskva)

Use of digital computers in the calculation of transient  
processes in electrical systems. Elektrichestvo no.9:7-14  
S '62. (MIRA 15:9)

(Transients (Electricity))  
(Electronic digital computers)  
(Electric networks)

VENIKOV, V.A.

Problems of distribution and transmission of electric  
power. Izv. AN SSSR. Otd. tekhn. nauk. Energ. i avtom.  
no.5:3-22 S-O '62. (MIRA 15:11)  
(Electric power distribution)

VENIKOV, V.A., dr. tekhn.nauk,. prof, Laureat Leninskoy premii;  
ASTAKHOV, Yu.N., inzh.

Construction of a cost scale for overhead power transmission  
lines. Izv.vys.ucheb.zav.;energ. 5 no. 8:1-10 Ag '62.  
(MIRA 17:7)

1. Moskovskiy ordena Lenina energeticheskiiy institut.  
Predstavlena kafedroy elektricheskikh sistem.

VENIKOV, V.A.; SIUDA, I.P.

Problems concerning the design of long-distance compensated  
electric power transmission lines. Izv. AN SSSR. Otd. tekhn.  
nauk. Energ. i avtom. no.1:37-44 Ja-F '62. (MIRA 15:3)  
(Electric power distribution)

*VENIKOV, V.A.*

BERG, A.I., glav. red.; TRUBENIKOV, V.A., glav. red.; DEKOVICH, D.F.,  
zaml glav. red.; LUTCH, A.Ia., doktor tekhn. nauk, prof.,  
zan. glav. red.; AVEN, O.I., red.; AGEYKH, D.I., red.; kand.  
tekhn. nauk, dots., red.; AYZERMAN, M.A., red.; VENIKOV, V.A.,  
doktor tekhn. nauk, prof., red.; VORONOV, A.A., doktor tekhn.  
nauk, prof., red.; GAVRILOV, M.A., doktor tekhn. nauk, prof.,  
red.; ZERNOV, D.V., red.; IL'IN, V.A., doktor tekhn. nauk,  
prof., red.; KITOV, A.I., kand. tekhn. nauk, red.; KOGAN, B.Ya.,  
doktor tekhn. nauk, red.; KOSTOUSOV, A.I., red.; KUMITSKIY,  
N.A., kand. fiz.-mat. nauk red.; LEVIN, G.A., prof. red.;  
LOZINSKIY, M.G., doktor tekhn. nauk, red.; MOSHIYEVSKIY, V.I.,  
red.; MAKSAREV, Yu.Ye., red.; MASLOV, A.A., dots., red.; POPOV, A.A., red.;  
RAKOVSKIY, M.Ye., red.; ROZENBERG, L.D., doktor tekhn. nauk,  
prof., red.; SOTSKOV, B.S., red.; TIMOFEYEV, P.V., red.;  
USHAKOV, V.B., doktor tekhn. nauk, red.; FEL'DBAUM, A.A.,  
doktor tekhn. nauk, prof., red.; FROLOV, V.S., red.;  
KHARKEVICH, A.A., red.; KHEMAY, A.V., kand. tekhn. nauk, red.;  
TSYPKIN, Ya.Z., doktor tekhn. nauk, prof., red.; CHELYUSTKIN,  
A.B., kand. tekhn. nauk, red.; SHREYDER, Yu.A., kand. fiz.-  
mat. nauk, dots., red.; BOCHAROVA, M.D., kand. tekhn. nauk,  
starshiy nauchnyy red.; DELONE, N.N., inzh., nauchnyy red.;  
BARANOV, V.I., nauchnyy red.; PAVLOVA, T.I., tekhn. red.

(Continued on next card)



BERG, A.I.— (continued). Card 2.

[Industrial electronics and automation of production processes] Avtomatizatsiia proizvodstva i promyshlennaya elektronika.  
Glav. red. A.I.Berg i V.A.Trapeznikov. Moskva, Gos.nauchn.  
izd-vo "Sovetskaya Entsiklopediya." Vol.1. A - I. 1962. 524 p.  
(MIRA 15:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Sotskov,  
Kharkovich, Zernov, Timofeyev, Popkov).  
(Automatic control) (Electronic control)

VENIKOV, V.A. (Moskva); ASTAKHOV, Yu.N. (Moskva)

Economic intervals in the selection of the optimum versions of power system objects and their use in calculating the engineering efficiency of electric power transmission systems. Izv. AN SSSR. Otd. tekhn. nauk. Energ. i avtom. no.3:12-19 My-Je '62.

(MIRA 15:6)

(Electric power distribution)

VENIKOV, V.A. (Moskva); KHARIKHARAN, M.V. (Moskva)

Concerning the load stability of electric power systems. Izv.  
AN SSSR. Otd. tekhn. nauk. Energ. i avtom. no.4:19-23 J1-Ag  
'62. (MIRA 15:8)  
(Electric power distribution)

"APPROVED FOR RELEASE: 09/01/2001

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**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859410014-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859410014-8"**

VENIKOV, Valentin Andreyevich; GARTSENBURG, Grigoriy Rafailovich;  
SOVALOV, Solomon Abramovich; SCKOLOV, Nikolay Ilyanovich;  
STROYEV, V.A., red.; BUL'DYAYEV, N.A., tekhn. red.

[Strong excitation control] Sil'noe regulirovanie возбуж-  
denia. Moskva, Gosenergoizdat, 1963. 151 p.  
(MIRA 16:10)

(Turbogenerators)  
(Volga Hydroelectric Power Station (Lenin))

ANISIMOVA, N.D., kand.tekhn.nauk, dotsent; VENIKOV, V.A., doktor tekhn.nauk,  
prof.; DOLGINOV, A.I., doktor tekhn.nauk; FEDOROV, D.A., kand.tekhn.nauk,  
dotsent;

Self-excitation and self-rocking in electrical systems.  
Elektrichestvo no.4:11-18 Ap '63.

(MIRA 16:5)

1. Moskovskiy energeticheskiy institut.  
(Electric power distribution)

KOSTENKO, M.V.; NEYMAN, L.R.; VENIKOV, V.A.; POPKOV, V.I.; MEL'NIKOV, N.A.;  
VOROB'YEV, A.A.; KUTYAVIN, I.D.; LYSHCHINSKIY, G.P.

V.K. Shcherbakov; on his 60th birthday and 35th anniversary of  
his educational work. Elektrichestvo no.8:93-94 Ag '63.  
(MIRA 16:10)



VENIKOV, V.A. ; SKRIPNIK, V.F.; TSOV'YANOV, A.N.

Use of digital computers in studying transients in electrical  
systems. Izv. AN SSSR. Energ. i transp. no.4:448-465 J1-Ag  
'63. (MIRA 16:11)

VENIKOV, V.A.; TELESHEV, B.L.; CHERNIKHOV, A.M.; IOZHEVIDOV, E.S.;  
GLAZUNOV, A.A.; FEDOSENKO, R.Ya.; FIGNER, L.M.; LERMAN,  
D.N.; MEL'NIKOV, N.A.

I.S.Bessmertnyi; on his 60th birthday. Elektrichestvo no.10:  
93 0 '63. (MIRA 16:11)

L 2968-66 ENT(d)/EWP(x)/EWP(1)  
ACCESSION NR: AP5026355

UR/0105/64/000/009/0091/0091

AUTHOR: Bel'kind, L. D.; Venikov, V. A.; Glazunov, A. A.; Grudinskiy, F. G.;  
Zhadin, K. P.; Zhobrovskiy, S. P.; Lapitskiy, V. I.; Neklyudov, B. K.; Pavlenko, V. A.  
Razevig, D. V.; Rossiyskiy, G. I.; Safonov, A. P.; Sokolov, N. I.; Soliatkina, L. A.  
Tayts, A. A.; Ulyanov, S. A.; Fedoseyev, A. M.; Kheyster, V. A.

TITLE: Professor B. A. Teleshev on this 70th birthday and the 45th anniversary  
of his engineering, scientific, and teaching activity

SOURCE: Elektrichestvo, no. 9, 1964, 91

TOPIC TAGS: electric engineering personnel

ABSTRACT: Boris Arkad'yevich Teleshev was seventy years old 12 March 1964.  
He graduated from the electromechanical department of the Petrograd Poly-  
technic Institute in 1917 and gained the title Electrical Engineer in 1920.  
In the Union of Electric Power Stations of the Moskovskiy rayon, Teleshev  
was one of the founders of the first dispatcher service of the Moscow  
Power System, the chief dispatcher of this system, the manager of the high-  
voltage networks of the Moscow Union, the chief engineer in construction of  
the Moscow high-voltage network and of the high-voltage network of the

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L 2968-66

ACCESSION NR: AP5026355

Moskovskiy rayon and the chief engineer in construction of the Bobrikovsk (now Novomoskovsk) hydroelectric station. In connection with the reorganization of construction in 1931, Teleshev was transferred to Energostroy, first as chief engineer of the Moscow division and then as deputy chief of the design administration of Energostroy (now Teploelektroproyekt). In 1934, Teleshev took the post of assistant director of the Scientific Section of the Power Engineering Institute imeni Krzhizhanovskiy of the Academy of Sciences USSR and worked as the immediate assistant to Academician V. M. Krzhizhanovskiy in directing the Institute until 1946. Starting in 1923, he did scientific research work first at the Moscow Institute of Mechanics im. Lomonosov and then at the Institute of National Economy im. Plekhanov. After the founding of the Moscow Power Engineering Institute in 1930, Teleshev transferred to that Institute and worked there until 1940. Here he was Lecturer of the Department of "Central Electric Stations" and a professor in the department. He received his professorship in 1933. He was Dean of the Electric Power Department of the Institute from 1932-1935. In 1940, Teleshev was made director of the Department of Electrical Engineering of the Moscow Institute of Fine Chemical Technology where he remained until 1955. In 1944 he took part in organizing the Power Engineer-

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L 2968-66

ACCESSION NR: AP5026355

ing Department of the Moscow Institute of Engineering Economics im. S. Ordzhonikidze. From 1946 to the present, Teleshev has been director of the Department of "Electric Stations and Substations" and there have been two printings of his textbook on a course in "General Electrical Engineering." Teleshev has acted in a consultative capacity in plans for a great number of electrical stations and networks. He participated in the Government Consultation on the Dneper hydroelectric station im. V. I. Lenin. He has been an active member of the Scientific and Technical Society of the Power Industry for more than 20 years. He was chairman of the Moscow board of the Society from 1944 to 1951. For his service to the Society, he has been made a permanent member. In 1950 he was elected deputy in the Moscow Council of Deputies of the Workers. He has been decorated with the Order of Lenin, the Order of the Red Banner of Labor and with medals.

Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

NR REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: EE

JPRS

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Card 3/3

1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 26

simplification of the electrical car platform. The cost of a 600-h.p. power transmission line, including labor, was \$165.

BERG, A.I., glav. red.; TRAPEZNIKOV, V.A., glav. red.; TSYFKIN, Ya.Z., doktor tekhn. nauk, prof., red.; VORONOV A.A., prof., red.; AGEYKIN, D.I., doktor tekhn. nauk, prof., red.; GAVRILOV, M.A., red.; VENIKOV, V.A., doktor tekhn. nauk, prof., red.; SOTSKOV, B.S., red.; CHELYUSTKIN, A.B., doktor tekhn. nauk, red.; PROKOP'YEV, V.N., doktor tekhn. nauk, prof., red.; IL'IN, V.A., doktor tekhn. nauk, prof., red.; KITOV, A.I., doktor tekhn. nauk, red.; KRINITSKIY, N.A., kand. fiz. mat. nauk, red.; KOGAN, B.Ya., doktor tekhn. nauk, red.; USHAKOV, V.B., doktor tekhn. nauk, red.; LEINER, A.Ya., doktor tekhn. nauk, prof., red.; FEL'DBAUM, A.A., doktor tekhn. nauk, prof., red.; SHREYDER, Yu.A., kand. fiz.-mat. nauk, red.; KHARKEVICH, A.A., akademik, red. [deceased]; TIMOFEYEV, P.V., red.; MASLOV, A.A., dots., red.; TRUTKO, A.F., inzh., red.; LEVIN, G.A., prof., red.; LOZINSKIY, M.G., doktor tekhn. nauk, red.; NETUSHIL, A.V., doktor tekhn. nauk, prof., red.; POPOV, V.I., red.; ROZENBERG, L.D., doktor tekhn. nauk, prof., red.; LIFSHITS, A.L., kand. tekhn. nauk, red.; AVEN, O.I., kand. tekhn. nauk, red.; BLANN, O.M. [blunn, O.M.], red.; BROIDA, V., inzh., prof., red.; BREKKL', L. [brockl, L.] inzh., knad. nauk, red.; VAYKHARDT, Kh. [Weichardt, H.], inzh., red.; BOCHANCVA, M.D., kand. tekhn. nauk, st. nauchn. red.

[Automation of production processes and industrial electronics]  
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 pedia sovremennoi tekhniki. Moskva, Sovetskaya entsiklopediya.  
 Vol.4. 1965. 543 p. (TRA 18:6)

ANDRIANOV, V.N.; BUDZKO, I.A.; VENIKOV, V.A.; DEMIN, A.V.; GORODSKIY, D.A.;  
GRUDINSKIY, P.G.; ZAKHARIN, A.G.; KRASNOV, V.S.; LEVIN, M.S.; LISTOV,  
P.N.; MARKOVICH, I.M.; MEL'NIKOV, N.A.; NAZAROV, G.I.; RAZEVIK, L.V.;  
SMIRNOV, B.V.; STEPANOV, V.N.; SYROMYATNIKOV, I.A.; FEDOSEYEV, A.M.;  
YAKOBS, A.I.

Doctor of technical sciences, Professor Lev Efimovich Ebin, 1905-; on  
his 60th birthday. Elektrichestvo no.6:91 Je '65. (MIRA 18:7)



NEPOROZHNIY, P.S.; SAVINYKH, A.P.; SAPOZHNIKOV, F.V.; SERDYUKOV, N.P.;  
ACHKASOV, D.I.; BURGEDORF, V.V.; NEMOV, N.P.; SYROMYATNIKOV, I.A.;  
KNYAZEVSKIY, B.A.; ROKGTYAN, S.S.; STEKLOV, V.Yu.; PEDOSAYEV, A.M.;  
GRUDINSKIY, P.S.; KHOMYAKOV, M.V.; VENIKOV, V.A.; CHERNOBROVOV, N.V.;  
MEL'NIKOV, N.A.; BERSHADSKIY, I.S.

Aleksandr Dmitrievich Romanov, 1905; on his 60th birthday. Elek.  
sta. 36 no.11:94 N '65. (MIRA 18:10)

1. 22592-6  
ACC NR: AP6013001

SOURCE CODE: UR/0105/65/000/006/0041/0091

AUTHOR: Andrianov, V. N.; Budzko, I. A.; Venikov, V. A.; Damin, A. V.; Gorodskiy, D. A.; Grudinskiy, P. G.; Zakharin, A. G.; Krasnov, V. S.; Levin, M. S.; Listov, P. N.; Markovich, I. M.; Mel'nikov, N. A.; Nazarov, G. I.; Raz vig, D. V.; Smirnov, B. V.; Stepanov, V. N.; Syromyatnikov, I. A.; Fedoseyev, A. M.; Yakobs, A. I.

ORG: none

TITLE: Doctor of technical sciences, Professor L. Ye. Ebin (on the occasion of his 60th birthday

SOURCE: Elektrichestvo, no. 6, 1965, 91

TOPIC TAGS: scientific personnel, electric network, lightning

ABSTRACT: Professor Lev Yefimovich Ebin, 60, graduated in 1928 from the Kiyevskiy elektrotekhnicheskii institut (Kiyev Electrotechnical Institute). Between 1929 and 1936, he worked in the Donenergo system and published various original papers on lightning protection and grounding devices. From 1936 EBIN works at the Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (All-Union Scientific Research Institute for the Electrification of Agriculture) where he heads a laboratory. In 1937, he defended his candidate's dissertation and in 1951 his Ph. D. Thesis dealing with studies of the nonsymmetrical operating conditions of electrical networks and of stationary and nonstationary electro-thermal processes in the

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UDC: 621.31

L 22592-66

ACC NR: AP6013001

country. These works served for further development of the rural distribution networks. He showed considerable interest in the problem of the raising of scientific personnel. Ebin was decorated with "Znak pocheta" and various medals. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2

L 17994-66

ACC NR: AP6006401

SOURCE CODE: 00/04/17/66/000/002/0144/0145

INVENTOR: Venikov, V. A.; Kuflik, A. A.; Kozyrev, V. A.

ORG: none

TITLE: Device for automatically coupling and uncoupling hoses. Class 47,  
No. 178251

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966,  
144-145

TOPIC TAGS: oxygen supply line, coupling, aircraft oxygen supply

ABSTRACT: The proposed device, which can be used, for example, for oxygen supply lines in aircraft ejection seats, contains two connecting elements, with an orienting cone and a seal. To ensure hermetic coupling and uncoupling of the hoses when they are not coaxially aligned, one of the connecting elements is secured in brackets; one element has a receiving, conical connecting sleeve with a directional funnel and

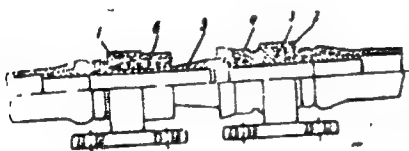


Fig. 1. Hose coupling

1, 2 - Brackets; 3 - fixed connecting sleeve; 4 - sealing collar; 5 - movable connecting tube; 6 - spring.

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UDC: 621.643.416

L 17994-66

ACC NR: AP6006401

an elastic sealing collar, and the other, a movable conical connecting tube, which is forced against the sealing collar by a spring (see Fig. 1). Orig. art. has:  
1 figure. [TN]

SUB CODE: 21/ SUBM DATE: 26Mar63/ ATD PRESS: 4213

Card

mi  
2/2

VENIKOV, V.A., Laureat Leninskoy premii, doktor tekhn. nauk, prof.;  
LITKENS, I.V., kand. tekhn. nauk, dotsent

Letter to the editor. Izv. AN SSSR. Mekh. no.6:155-157  
N-D '65. (MIRA 18:12)

L 27908-66

ACC NR: AP6017785

SOURCE CODE: UR/0281/65/000/006/0059/0066

AUTHOR: Astakhov, Yu. N. (Moscow); Verikov, V. A. (Moscow); Zuyev, E. N. (Moscow)

ORG: none

TITLE: Increasing the throughput capacity of a dual circuit electric transmission line by efficient location of conductors

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no, 6, 1965, 59-66

TOPIC TAGS: transmission line, electric power transmission, electric inductance, electric conductor

ABSTRACT: The results are presented from an analysis of the possibility of increasing the throughput capacity of a two-circuit electric power transmission line by decreasing the mean phase inductance by changing the locations of the conductors on poles. The investigations indicated that proper location can provide a reduction in amount of mean inductance by the negative mutual inductive influence of one circuit on another. Six possible conductor groupings were analyzed. Orig. art. has: 4 figures, 5 tables, 7 formulas. [JPRS]

SUB CODE: 10, 09 / SUBM DATE: 01Jul65 / ORIG REF: 006

Card 1/1

UDC: 621.311.1

L 27947-66

ACC NR:

AP6017709

SOURCE CODE: UR/0105/66/000/001/0086/0086

AUTHOR: Avilov-Karnaukhov, B. N.; Bol'sham, Ya. M.; ~~Venikov, V. A.~~; Volobriinskiy, S. D.; Yermilov, A. A.; Konstantinov, B. A.; Knyazevskiy, B. Ye.; Minin, G. P.; Miller, I. E.; Mukoseyev, Yu. L.; Petrov, I. I.; Serbinovskiy, G. V.; Syromyatnikov, I. A.; Fedorov, A. A.; Kholskiy, T. V.; Chagalov, A. S.; Chilikin, M. G.

CRG: none

TITLE: Prof. Georgiy Mikhaylovich Kayalov (on his 60th birthday)

SOURCE: Elektrichestvo, no. 1, 1966, 86

TOPIC TAGS: academic personnel, electric engineering personnel, electric equipment

ABSTRACT: In 1929, G. M. Kayalov completed the electrotechnical department of the Mechanical Faculty of the Novocherkassk Polytechnical Institute. Until 1947, he worked in the planning department of the Rostov Division of the All-Union Electrotechnical Union. In this time, he rose to the position of Chief Engineer. He directed the planning of a large number of important pieces of electrical equipment for various projects. He was active in the postwar restoration of many important industrial enterprises. He is the author of almost 70 published works, and has made a great contribution to modern, scientifically based methods of design and analysis of electrical loads for industrial equipment. He is on a number of commissions and in many scientific and technical societies. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 1/1

BLC

UDC: 621.34



L 29166-66

ACC NR: AP6018890

SOURCE CODE: UR/0104/65/000/011/0004/0094

AUTHOR: Neporozhniy, P. S.; Savinykh, A. P.; Sapozhnikov, F. V.; Sordyukov, K. P.; Achkanov, D. I.; Burgdorf, V. V.; Monov, N. P.; Syrotyatnikov, I. A.; Knyazovskiy, D. A.; Rokotyan, S. S.; Steklov, V. Yu.; Fodoseyov, A. M.; Grudinskiy, P. S.; Khomyakov, M. V.; Venikov, V. A.; Chernobrovov, N. V.; Mel'nikov, N. A.; Bershadskiy, L. S. 21 B

ORG: ncne

TITLE: Honoring the 60th birthday of Aleksandr Dmitriyevich Romanov

SOURCE: Elektricheskiye stantsii, no. 11, 1965, 94

TOPIC TAGS: electric power plant, industrial personnel

ABSTRACT: In July 1965 A. D. Romanov celebrated his 60th birthday and the 35th anniversary of his active life as a major designer, operator, and builder of electric power stations. On his graduation in 1927 from the Moscow College of Engineering, Aleksandr Dmitriyevich joined the Mosenergo Moscow Power System where he steadily rose through the ranks until he became Deputy Chief Engineer, while at the same time participating in the design and practical introduction of 500-kV electric transmission lines running from Moscow to Volzhskaya Hydroelectric Power Station and from Kuybyshev to the Urals. Since 1959 A. D. Romanov has been Chief Engineer at the Glavvostozelektrostroystroy Main Administration for Power Grid Construction in Eastern USSR of the Cord 1/2

ACC NR: AP6018890

State Production Committee for Energetics and Electrification USSR. Along with his active work, since 1930 A. D. Romanov has been teaching courses in Power Networks and Systems as well as in Power Stations and Substations at the Moscow Correspondence Institute of Energetics and, later, at the All-Union Correspondence Institute of Energetics, and, in this capacity, has trained new cadres of power engineers. In 1957 the title of Assistant Professor was conferred on him and in 1963, the title of Candidate of Technical Sciences. He has published more than 40 scientific and technical articles on power engineering and construction and he is a member of the editorial boards of the periodic anthologies Energeticheskoye Stroitel'stvo (Power Construction) and Energeticheskoye Stroitel'stvo za Rubezhom (Power Construction Abroad). He has been a Party member since 1932 and is the bearer of the Order of Labor Red Banner as well as of various medals. Best wishes for further creative work are extended to him. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10 / SUBM DATE: none

Card 2/2 CC

L 39764-66 EWT(1) GD-2

ACC NR: AP6014969

SOURCE CODE: UR/0281/65/000/005/0028/0032

AUTHOR: Astakhov, Yu. N. (Moscow); Venikov, V. A. (Moscow); Zayev, E. N. (Moscow)

ORG: none

TITLE: Increasing the throughput capacity of dual-circuit electric power transmission lines

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 5, 1965, 28-32

TOPIC TAGS: electric power transmission, electric wire

ABSTRACT: The results of an investigation of the possibility of increasing the throughput capacity of two-circuit electric power transmission lines are presented. It is shown that a method which consists of rotating one circuit to counterphase allows an increase of the power throughput capacity of up to almost 20% in many cases. This phase rotation method utilizes the mutual inductance effect of one circuit on the other. Making this effect negative by rotating the phase of one of the two circuits in the line leads to a reduction in average phase inductance. A table is presented, showing the increases in power attainable with various types of wire, insulating supports and voltages varying from 35 to 330 kv. The increases in limit power transmittable vary from 6.8 to 17.3%. Orig. art. has: 4 formulas and 1 table. [JPRS]

SUB CODE: 10, 09 / SUBM DATE: 03Jun65 / ORIG REF: 002

Card 1/1

UDC: 621.311.154

L 39733-66 EWT(1)/EEC(k)-2/EPF(n)-2/ETC(f)/EWG(m)/EWA(d)/T-2/FSS-2 IJP(c)

ACC NR, AN6006679  
AT/DS/WW/GD-2

(A,N)

SOURCE CODE: UR/9008/65/000/274/0004/0004

AUTHOR: Venikov, V. (Lenin prize winner, Doctor of technical sciences); Astakhov, Yu. (Candidate of technical sciences); Zuyev, E. (Engineer)

ORG: none

25  
B

TITLE: Power engineering--world of phantasy and reality [Projected developments in Soviet electric power production]

SOURCE: Krasnaya zvezda, no. 274, 1965, 4, col. 1-5

TOPIC TAGS: MHD generator, thermoelectric generator, fuel cell, CTR, *electric power plant*

ABSTRACT: <sup>1</sup>Fuel cells, <sup>2</sup>MHD generators, <sup>2</sup>thermoelectric generators, and CTR are discussed in terms of their potential as future electric power sources. Increases in efficiency and cost reduction, possible through the utilization of such sources, are indicated.

SUB CODE: 10/

SUBM DATE: 00/

ORIG REF: 000/

OTH REF: 000

Card 1/1

45

2

VENIN, V.M.

"Soviet geography," a new American geographical journal. Izv. AN  
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(United States--Geography--Periodicals)

VENIN, V.V.

Device for avoiding snags on a hemp beater. Tekst.prom.15  
no.7:41 J1 '55. (MLRA 8:10)  
(Hemp)

VENING MEINESZ, Felix Andries, 1887

Gravimetric observations at sea; theory and practice, Per. s angliiskogo. Moskva, Izd-vo  
geodezicheskoi i kartogr-ficheskoi lit-ry, 1940. 323 p. maps (49-34205)

QB335.V414

VENITCHENKO, Ye.G.

Design of an experimental administration and general services  
combine for the Bystriansk Hydraulic Mine. Adm.-byt. komb.  
ugol'. shakht no.5:52-58 '62. (MIRA 17:8)

1. Rostovgiproshkht.



ZHIVOV, M.S., inzh.; VENITSIANOV, Ye.A., inzh.

Mechanization of piercing operations. Mont. i spets. rab. v.  
stroitel. 24 no. 3:23-26 Mr '62 (MIRA 15:6)

1. Vsesoyuznyy trest po montazhy elektrostantsiy promyshlennykh  
predpriyatiy tsentral'nykh rayonov Ministerstva stroitel'stva  
predpriyatiy metallurgicheskoy i khimicheskoy promyshlennosti SSSR.  
(Drilling and boring--Electric equipment)

VENITSKOVSKIY-ZOLOTYKH, Yu.V.

~~Some data on the effect of irradiation on hemopoiesis in splenectomized rats [with summary in English]. Med.rad. 3 no.5:58-64 8-0 '58~~  
(MIRA 11:12)

(HEMOPOIESIS, eff. of radiations,

x-rays, in splenectomized rats (Rus))

(ROENTGEN RAYS, eff.

on hemopoiesis, in splenectomized rats (Rus))

(SPLEEN, eff. of excision

on hemopoiesis response to x-rays in rats (Rus))

LAPTEVA-POPOVA, M.S.; VENITSKOVSKIY-ZOLOTYKH, Yu.V.

: Some data on the mechanism of radiation damage to hemopoiesis.  
Med.rad. 5 no.2:3-12 F '60. (MIRA 13:12)  
(RADIATION—PHYSIOLOGICAL EFFECT) (HEMATOPOIETIC SYSTEM)

VENIYERI, R.Yu.

Bolshaya Khadata Station. Nauka i shizn' 27 no.6:56-59 Ja '60.  
(MIRA 13:7)

1. Nachal'nik Polyarno-ural'skoy ekspeditsii Instituta geografii  
Akademii nauk SSSR.

(Ural Mountains—Glaciological research)

. VENIYERI, Z.A.

Initial phases of acute schizophrenia. Vop. psikh. no. 3:95-101  
'59. (MIRA 13:10)

(SCHIZOPHRENIA)

VENIYERI, Z.A. (Moskva)

Psychological disturbances in somatic diseases. Med. sestra 19 no.7:  
13-17 J1 '60. (MIRA 13:8)

(MEDICINE, PSYCHOSOMATIC)

VENYAMI, A.A.

34223. K Voprosy O Psikhopatologicheskikh izmeneniyah Pri vgrozhozhu-  
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M. 1949, c. 364-68

SO: Knizhnaya Letopis' No 6, 1955

VENKATACHALA, B.S., dr.; BALTES, N.

Palynological studies of the Tertiary deposits in the  
Rumanian cis-Carpathian depression; the Getic Depression.  
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1. Institutul de Paleobotanica Birbal Sahni, Lucknow, India  
(for Venkatachala). 2. Intreprinderea de Laboratoare  
Geologice, Ministerul Industriei Petrolului si Chimiei,  
Bucuresti (for Baltas).



VENKATACHALA, B. S.; BEJU, D.

Presence of the Devonian in the foundations of the Calarasi zone.  
Petrol si gaze 12 no.11:494-495 N '61.

1. Institutul de Paleobotanica Birbal Sahni, Lucknow, India (for Venkatachala) 2. Intreprinderea de Laboratoare Geologice, Buduresti (for Beju).

(Rumania--Geology, Stratigraphic)

ZONENSHAYN, L.P.; BERTEL'S-USEPENSKAYA, I.A.; SAFRONOV, V.S.; NEYMAN, V.B.;  
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M.N.; LANGE, O.K.; KABANOV, G.K.; KUZNETSOVA, K.I.; SINITSYNA, I.N.;  
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YAKUBOVSKAYA, T.A.; YURINA, A.L.; RYBAKOVA, N.O.; MORZOVA, V.G.;  
BARASH, M.S.; FONAREV, V.I.; NIKONOV, A.A.

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